Special Issue

Application and Characterisation of Hybrid Halide Perovskites

Message from the Guest Editor

This Special Issue concerns the application and characterisation of hybrid halide perovskites, which have, over the last few years, become the focus of the photovoltaic research community. The fast enhancement of the related solar cell performance is due to their unique photophysical properties, such as remarkable optical absorption across a wide range of the solar spectrum. Hybrid halide perovskites have an ABX3 structure (where A = methylammonium, formamidinium rubidium, caesium; B = tin, lead; X = iodine, chlorine, bromine) and thin films can be grown by different methodologies ranging from vacuum technologies to wet chemistry. Mixing the cations and/or the halides, perovskite with band gap from 1.1 to 3.0 eV can be obtained and, therefore, this class of materials is also attractive for applications in lasing, light-emitting and thermoelectric devices. Original research papers and review papers related to the application and characterisation of hybrid halide perovskites are welcome. Applications or characterisation techniques will also be considered for publication.

Guest Editor

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Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editor-in-Chief

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